



Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402-2801

November 17, 2000

10 CFR 50,
Appendix E
Section V

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555-0001

Gentlemen:

In the Matter of)	Docket Nos.	50-259	50-390
Tennessee Valley Authority)		50-260	50-391
			50-296	50-327
				50-328

TVA CENTRAL EMERGENCY CONTROL CENTER (CECC) - EMERGENCY PLAN
IMPLEMENTING PROCEDURE (EPIP) REVISIONS

In accordance with the requirements of 10 CFR Part 50, Appendix E, Section V, enclosed are copies of the Effective Page Listing and revisions to CECC EPIPs.

PROCEDURE		EFFECTIVE DATE
EPIP	EPL	11/13/00
EPIP-1	Rev. 32	11/13/00


The enclosed information is being sent by certified mail. The signed receipt signifies that you have received this information and will be taken as verification that the NRC copies of the plan have been updated, and the superseded material has been destroyed.

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U.S. Nuclear Regulatory Commission
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November 17, 2000

If you have any questions, please contact Terry Knuettel at
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Sincerely,


Mark J. Burzynski
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Enclosures

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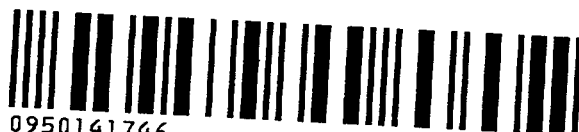
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			Y	N			
CECC-EPIP							
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CECC EPIP-1, rev. log	32	2 ✓	✓		11-13-00	rev. log	rev. log
CECC EPIP-1	32	29	✓			All	1 - 29
<div style="text-align: right;">Date _____</div> <div>Contact: _____ Ext. _____</div>					Acceptance: <div>Lana L. Farmer 11-13-00</div> <div style="margin-left: 200px;">Signature Date</div>		

TENNESSEE VALLEY AUTHORITY
CENTRAL EMERGENCY CONTROL CENTER EMERGENCY PLAN
IMPLEMENTING PROCEDURES
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Tennessee Valley Authority CENTRAL EMERGENCY CONTROL CENTER EMERGENCY PLAN IMPLEMENTING PROCEDURES	Title CENTRAL EMERGENCY CONTROL CENTER (CECC) ALERT, SITE AREA EMERGENCY, AND GENERAL EMERGENCY	CECC EPIP-1 REV. 32 Effective Date: <u>11/13/2000</u>
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WRITTEN BY: Thomas E. Aldrin SIGNATURE: Thomas M. Daniel 11/6/2000
 Signature Date

PLAN EFFECTIVENESS DETERMINATION: Thomas E. Aldrin 11/6/2000
 Signature Date

CONCURRENCES

Concurrence Signature	Date
<input type="checkbox"/> Manager, EP Program Planning and Implementation <u>[Signature]</u>	<u>11/6/00</u>
<input type="checkbox"/> Manager, Emergency Preparedness <u>[Signature]</u>	<u>11/6/2000</u>
<input type="checkbox"/> Manager, Radiological and Chemistry Services <u>[Signature]</u>	<u>11/6/2000</u>
<input type="checkbox"/>	

APPROVAL

APPROVED BY: <u>[Signature]</u> Signature	Vice President, E&TS Title Organization	<u>11/13/00</u> Date
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CECC-EPIP-1
CENTRAL EMERGENCY CONTROL CENTER
ALERT, SITE AREA EMERGENCY, AND GENERAL EMERGENCY

Rev. No.	Date	REVISION LOG	Revised Pages
0	3/22/88	All (Formerly IP-18. Changed from IPD to EPIP)	
1	11/18/88	1, Appendix A	
2	4/26/89	All	
3	7/13/89	Appendix A	
4	10/26/89	2, Appendix A	
5	5/23/90	All (formerly EPIP-5)	
6	7/2/90	Appendix C, Pg. 1 (only)	
7	9/14/90	Pg. 5; App. D, Pg. 3; App. G, Pg. 1; App I, Pg. 1	
8	5/21/91	App. A, Pg. 1,5; App. C, Pg. 1, App. D, Pgs. 1-3; App. G, Pgs. 3-4; App. H, Pgs. 1-2; App. I, Pg. 2	
9	10/17/91	App. C, Pg. 1; App. D, Pg. 2; App. G, Pg. 1.	
10	05/15/92	App. E, Pg. 2 revised; new coversheet & rev. log added. All pages issued.	
11	05/26/92	Page 5	
12	11/25/92	App. B, Pg. 1; App. G, Page 1 of 4	
13	03/08/93	App. I, Pages 1-2	
14	05/17/93	2-5, App. A, Pg. 1; App. B, Pg. 1; App. D, Pgs. 1-4; App. H deleted.	
15	07/19/93	Appendix D, Pgs. 1-5. All pages issued.	
16	09/13/93	Appendix C, Pg. 1; Appendix G, Pg. 2. All pages issued.	
17	11/30/93	Pgs. 1 & 5; App. A, Pg. 3; App. C, Pgs. 2 & 3; App. D, Pgs. 1-3; App. E deleted; App. I changed to App. H; App. J changed to App. I.	
18	04/19/94	Pgs. 1-5; App. A, Pgs. 1-5; App. B; App. C, Pgs. 1-3; App. D, Pgs. 1-2; App. F; App. G, Pgs. 1-4; App. H, Pgs. 1-2; App. I	
19	6/26/95	Pgs. 1 and 5; App. A, Pgs. 2 and 4; App. E; all pages issued.	
20	11/01/95	Revised PAR Diagram. All pages issued.	
21	10/30/96	Revised PAR Diagram, revise State Update Form, revise CECC Dir. Checklist, add telephone suspended rate activation/deactivation information. Put EPIP in new format. All pages issued.	

CECC-EPIP-1
CENTRAL EMERGENCY CONTROL CENTER
ALERT, SITE AREA EMERGENCY, AND GENERAL EMERGENCY

REVISION LOG (Continued)

Rev. No.	Date	Revised Pages
22	4/7/97	Annual review, editorial changes, revise CECC Director checklist. Identify positions that can fill TVA spokesperson position. All pages issued.
23	3/6/98	Annual review, remove old appendix B and relabel app. C - H as app. B - G. On page 1 of old app. F clarify order of CECC Dir notifications. All pages issued.
24	11/20/98	Add instruction for CECC Director to inform SED where the State has been notified of an emergency classification change. Add EAL designator to State Update Form, update Alabama telephone area code prefix. All pages issued.
25	2/22/99	Revise PAR diagram, add CECC Director duty to request federal assistance through the NRC. Annual review. All pages issued.
26	5/1/99	Revise PAR diagram. All pages issued.
27	5/20/99	Revise instructions for suspended rate telephone line activation. All pages issued.
28	7/16/99	Pages 6, 16, and 26 were revised to ensure complete PAR information is provided to the State. On page 19 an editorial correction was made. All pages issued.
29	11/15/99	Changes made to make forms easier to use (App. B, E, F and H) and for clarity. Phone numbers updated in Appendix G. Added reference to ITSC, editorial changes. All pages issued.
30	8/17/00	Annual review. Revise PAR diagram. All pages issued.
31	10/2/00	Add listing of all evaluation sectors for each plant to Appendix H. Add step to CECC Director checklist to announce classification changes to the CECC staff and to the TVA spokesperson. All pages issued.
32	11/13/00	Clarify responsibilities of the CECC Director and the State Communicator concerning transmittal of hard copy information related to classifications and PARs to the State.

**CENTRAL EMERGENCY CONTROL CENTER (CECC) ALERT,
SITE AREA EMERGENCY, AND GENERAL EMERGENCY**

1.0 PURPOSE

This procedure is designed to direct the CECC Director and staff to ensure consistent, accurate, and timely response to the events of an accident. This procedure further serves to identify the necessary information to provide for prompt, accurate, public protective action recommendations to appropriate State authorities.

2.0 SCOPE

This procedure covers anticipated requirements of the CECC Director and staff during an emergency classification of Alert, Site Area Emergency, or General Emergency.

3.0 REFERENCES

Radiological Emergency Plan (REP)

4.0 ABBREVIATIONS AND DEFINITIONS

AEMA - Alabama Emergency Management Agency
CECC - Central Emergency Control Center
EDO - Emergency Duty Officer
FCC - Field Coordination Center
JIC - Joint Information Center
NCO - Nuclear Central Office
NRC - Nuclear Regulatory Commission
ODS - Operations Duty Specialist
R/H - Radiological Health
RMCC - Radiological Monitoring Control Center
SRMAC - State Radiological Monitoring and Assessment Center
TEMA - Tennessee Emergency Management Agency
TSC - Technical Support Center
ITSC - Information Technical Service Center

5.0 RESPONSIBILITIES

- 5.1 Upon notification by the TVA ODS that an emergency condition exists, the EDO is responsible for establishing initial operation of the CECC. If the decision is made to activate the JIC, TEMA FCC/RMCC or Alabama R/H SRMAC/AEMA Liaison, the EDO will contact the TVA ITSC using Appendix G as a guide. The ODS is responsible for contacting the CECC staff and having them report to the CECC. The CECC Director has general responsibility for verification of notification and overall accident assessment during an emergency condition.
- 5.2 To assist the CECC Director in carrying out the responsibilities of the Director's position, a CECC staff is available. An assignment of positions and duties of this staff is described in Appendix A.
- 5.3 Appendix D (or a similar form) will be used to document fitness for duty when an individual is called and requested to respond to an emergency.

6.0 PROCEDURE REQUIREMENTS

6.1 Notifications

6.1.1 Upon reporting to the CECC, the EDO will take actions prescribed in CECC-EPIP-21.

6.2 Accident Assessment

6.2.1 The CECC Director is responsible for directing TVA's overall response to the emergency.

6.2.2 The State Communicator shall ensure that all information required by State authorities to perform their assessment function and carry out necessary protective actions is being provided to them in a timely and accurate manner (see Appendix B). The CECC Director shall review for accuracy and approve all information being transmitted to the State in hardcopy form. (This excludes the automatic transmittal of the radiological assessment working information such as met data, dose code runs, plume plots, and field measurements sent to the State Radiological Health Assessors.) If the decision is made to activate the TEMA FCC/RMCC or Alabama R/H SRMAC/AEMA Liaison, after the CECC is activated, the CECC State Communicator will contact the TVA ITSC using Appendix G as a guide for phone activations.

6.2.3 The CECC Director is responsible for making appropriate public protective action recommendations to State authorities after the CECC is staffed. Appendix C provides a logic diagram to assist the CECC Director in making protective action recommendations to the State.

6.2.4 The CECC Director conducts periodic briefings (at a minimum, hourly) with the Plant Assessment, Radiological Assessment, and Public Information Managers, and others as necessary to review all appropriate information.

6.2.5 The Radiological Assessment and Plant Assessment Managers shall ensure that the accident information collected is posted appropriately on the status boards. The information on the status boards must be kept current for the benefit of the CECC staff.

6.2.6 The CECC Director shall ensure that any discrepancies between TVA and State information/assessment are resolved and clarified appropriately.

6.2.7 Potential Release Evaluation

A potential release evaluation may be performed at any time by the CECC Plant Assessment Team to assess the impact of plant conditions on the environment. This evaluation is based on the present or projected plant conditions.

The Plant Assessment and Radiological Assessment Managers shall determine the need for a potential release and associated dose evaluation based on a potential change in plant conditions. The need for such an evaluation shall be based on the continuing assessments being made by the CECC staff and the information obtained from trending key plant and offsite parameters.

If this evaluation is needed, the CECC Plant Assessment Team will determine postulated plant status to be considered and perform the necessary calculation to predict the potential release.

The Plant Assessment Team will calculate the predicted release and provide it to the radiological assessment staff who will calculate an associated offsite dose. The results of the dose assessment will then be provided to the Radiological Assessment Manager and CECC Director.

6.3 General Operation

6.3.1 Physical Security Requirements for CECC

The CECC Director has responsibility for physical security of the CECC. The CECC Director or his representative will inform the Security Officer (stationed at the entryway to the CECC) if visitors requesting admittance to the emergency center should be allowed to enter. CECC staffs will have key card access during CECC activations.

6.3.2 Technical Advisors

The CECC Director will coordinate with the Plant Assessment Manager the selection of people to serve as a technical advisor to the Public Information Manager and staff and also to the State Communicator in the CECC. The advisors will be responsible for providing a nontechnical interpretation of the event for the CECC Public Information staff.

If the JIC is to be staffed, the CECC Director will coordinate with the Plant Assessment and Radiological Assessment Managers the selection of radiological health and plant operations advisors to serve as technical advisors to the TVA spokesperson located there. These people will be responsible for assisting the TVA spokesperson in interpreting the approved press releases and events taking place.

RADCON and/or Plant Operations advisors may also be selected to be sent to the appropriate State Emergency Operations Center.

6.3.3 Support From Other TVA Organizations

The CECC Director will discuss the support needed from other TVA organizations necessary to mitigate the consequences of an accident with representatives of those TVA organizations as needed. These representatives may report to the CECC if requested by the CECC Director. Representatives and notification information are provided in the TVA Radiological Emergency Notification Directory (REND).

6.3.4 TVA Liaison to the State

For a classification of SITE AREA EMERGENCY OR GENERAL EMERGENCY, the CECC Director will coordinate with the Plant Assessment Manager and REP staff representative the selection of a TVA liaison to the State Emergency Operations Center (EOC) in Tennessee or the SRMAC in Alabama. The CECC Director will authorize travel to the State facilities for the purpose of providing technical information, advice, and interpretation to State personnel.

Primary duties of the TVA liaison to the State facilities are as follows:

- A. Technical explanations and clarification on plant status.
- B. Assist the State by keeping them informed of available TVA resources.
- C. Assist the State in describing/clarifying TVA's response to the emergency, understanding TVA's emergency organization, key TVA staff positions, etc.

6.3.5 Relief of Duties

Should operations be expected to last for an extended period, the CECC Director originates a schedule for relief. The duties of CECC staff should only pass to individuals identified as alternates for those positions. However, for short periods of time, persons with limited qualifications may fill the position in temporary relief of the fully qualified staff. The CECC Director gives the Management Services representative a copy of the schedule, and he notifies the individuals of the time they are to report.

6.3.6 NRC Support

Provisions have been made to provide workspace for a contingent of NRC staff in the CECC. These provisions include the NRC's FTS 2000 Emergency Telecommunications System. The following dedicated circuits are available: Health Physics Network (HPN), Reactor Safety Counterpart Link (RSCL), Protective Measures Counterpart Link (PMCL), Management Counterpart Link (MCL), Emergency Notification System (ENS), Local Area Network (LAN). HPN and ENS extensions are provided for TVA use as required.

CENTRAL EMERGENCY CONTROL CENTER (CECC) ALERT, SITE AREA EMERGENCY, AND GENERAL EMERGENCY	CECC EPIP-1	Page 5 of 29 Revision 32
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6.3.7 Termination of the Emergency

The CECC Director will inform each emergency center when the emergency is terminated and the recovery phase begins.

Upon termination of the emergency, the CECC Director and staff will make themselves available to the TVA, NRC, and other official event reviewers for review of the accident.

6.3.8 Coordination of Recovery Efforts

Appropriate recovery efforts shall be initiated upon termination of the emergency. The Senior Vice President, Nuclear Operations, or his designee, will direct the overall recovery efforts for response to an emergency in accordance with the general guidelines provided in the REP and CECC-EPIP-13. As judgment and events determine, additional resources outside of TVA may be required to mitigate the consequences of an emergency.

The Senior Vice President, Nuclear Operations, or his designee, contacts these offsite agencies as needed. Some of the groups from whom support can be obtained include: NRC, DOE (Oak Ridge), DOE (Savannah River), INPO, FRERP, NSSS vendors, and other nuclear utilities.

7.0 CHECKLISTS FOR POSITIONS

CECC Director - Appendix E
State Communicator - Appendix F

APPENDIX A Page 1 of 4

I. CECC STAFF

A. CECC Director - Directs and coordinates overall TVA activities associated with the emergency. Analyzes information relative to action recommendations to the State. Reviews and provides final approval for all TVA news releases (other than initial notification of the event) regarding TVA's response to the emergency prior to their release from the CECC. (See Appendix E for checklist.)

1. Ensures that appropriate measures have been taken to terminate the condition causing the emergency, protects employees and the public, initiates recovery from the emergency, and ensures information is provided to the news media and public.

* 2. Notifies the State within 15 minutes of any emergency classification change
* and ensures the State Communicator provides a hard copy of the classification
* to the State. Notifies Site Emergency Director when State or local agencies have
* been notified of the emergency classification upgrade.

* 3. Ensures that Federal, State, and local agencies are notified in accordance with
* established procedures and that they are kept fully informed of all aspects of the
* emergency.

* 4. Reviews with the Plant Assessment and Radiological Assessment Managers the onsite
and offsite consequences of the accident and assesses the adequacy and need for
measures taken for protection of the public.

* 5. Commits TVA Resources and provides necessary information to assist the State,
Federal, and local agencies to the extent possible.

* 6. Maintains accurate records of decisions made and actions started and completed.

* 7. Coordinates TVA's efforts with State and Federal agencies involved in the offsite aspects
of the emergency. Requests any required federal assistance through the NRC.

* 8. Use CECC EPIP-1, Appendix H to make recommendations to State and local agencies
* on protective actions (PARs) for the public. Ensures State Communicator provides
* hardcopy of PAR to the State (CECC EPIP-1, Appendix H).

* 9. Verifies the JIC is being staffed and designates the TVA spokesperson.

* 10. May, at his discretion, request that a second CECC Director report to the CECC to assist
the primary Director in overall CECC operations.

* 11. Announces to the CECC and informs the TVA spokesperson at the JIC (if staffed) of
any emergency classification changes.

B. Plant Assessment Manager (PAM) - Directs the CECC plant assessment staff and advises
the CECC Director on protective action recommendations based on plant status.

*Revision

APPENDIX A Page 2 of 4

1. Responsible to the CECC Director to ensure that he is kept periodically briefed (at a minimum, hourly) and provide the information pertaining to plant status and any protective action recommendations in accordance with criteria established in CECC-EPIP 6. This information will be used by the CECC for overall accident assessment (see Appendix C).
 2. Maintains contact with the Technical Assessment Manager/SED and ensures that necessary support is provided.
 3. Ensures that periodic status reports are received from the site and provided to the CECC Director, other support organizations as needed, and within the CECC.
 4. Requests assistance from other organizations, local agencies, government installations, or vendors, as needed.
 5. Makes appropriate recommendations to the Site Emergency Director and, based on the site's disposition, informs the CECC of the site's actions.
 6. May provide support services to the plant by utilizing all of the necessary manpower and equipment under the control of NP.
 7. Ensures that employees who may be required to go to the affected plant are fully briefed prior to leaving and know to whom they are to report.
 8. Keeps the site emergency organization informed of personnel ordered to the site and expected time of arrival.
 9. Ensures the accuracy of plant status information and sequence of events on status boards.
- C. Radiological Assessment Manager (RAM) - Directs the CECC radiological assessment staff in assessing the environmental consequences of accidents and, upon special request, provides necessary support regarding inplant radiation protection problems. Advises the CECC Director on protective action recommendations based on offsite radiological conditions.
1. When notified by the ODS that an emergency situation exists, activates the Radiological Assessment Coordinator as appropriate.
 2. Directs the radiological assessment staff in conducting all phases of radiological monitoring in the environment for all areas potentially affected by the emergency.
 3. Provides technical assistance regarding radiation protection in the plant as requested.
 4. Evaluates the information provided to determine if a hazard exists to the public or environment and recommends protective actions to the CECC Director. Utilizes the radiological assessment portion of the logic diagram from CECC-EPIP-7 to formulate these recommendations.
 5. Directs all CECC radiological assessment staff functions and advises the CECC Director of status.

APPENDIX A Page 3 of 4

6. Provides periodic briefing to the CECC staff regarding environmental conditions, the status of protective actions, and required plant health physics support.
 7. Ensures accuracy of radiological data on status boards.
- D. State Communicator (TVA employee) - Serves as a TVA contact with the State, providing periodic reports on plant systems and radiological assessment. (See Appendix F for checklist.)
1. Acts as a communicator and source of information to the State.
 2. Acts as contact for the State to clarify any discrepancies between information supplied from the CECC and any other TVA or non-TVA organization as they pertain to TVA-related activities.
 3. Responsible for ensuring that any technical clarifications required by the State related to TVA's dose assessment activities are being provided.
 - * 4. Responsible for ensuring pertinent information related to emergency classifications, PARs, plant status, onsite responses, and TVA's dose/environs assessment activities is being provided to the State (see Appendix B). Appendix B shall be provided, at a minimum, hourly or when significant changes occur.
 5. Assists the State as requested in providing TVA resource assistance to the State.
 6. Assists the State liaison (State government representative) as necessary to keep him briefed on the plant situation and coordinating responses to State inquiries, etc.
 7. If the decision is made to activate the JIC, TEMA's SQN FCC/RMCC, or Alabama SRMAC/AEMA, will ensure appropriate phone lines are removed from suspended rates using Appendix G as a guide.
- E. State Liaison (State Government Representative) - The State Liaison role in the CECC is to observe events taking place, licensee response actions, and advise the State agencies appropriately throughout the emergency. He will receive assistance as necessary from the State Communicator.
- F. NRC - The NRC role in the CECC is to observe and advise as appropriate with licensee decisions and actions.
- G. Public Information Staff - Performs public information functions and media relations during an emergency. Co-operates the Joint Information Center (JIC).
1. Responsible for monitoring information and rumors concerning the emergency, drafting and coordinating written TVA news releases, and securing approval of the draft from the CECC Director.
 2. Responsible for assisting the media in covering the activities of the emergency.

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3. Responsible for periodically briefing the CECC Director on specific media concerns and actions.
 4. Responsible for activating and coordinating TVA activities of the JIC.
- H. ODS - Maintains a 24 hour contact for emergency reporting and notification.
1. Provides for initial notification of all offsite emergency organizations upon declaration of an emergency classification.
 2. Notifies key CECC staff members which are required to report to the CECC.
 3. Performs notifications to other organizations or personnel as requested by the CECC Director.
- I. EP Staff Representative(s) - Advises the CECC Director regarding all aspects of the REP and operation of the CECC. Confirms the CECC is set up and operating properly. Assists the CECC Director in operating the CECC by evaluating, compiling, documenting, and posting data concerning the emergency situation. This position(s) may be filled by the EDO or other EP staff members if necessary.
- J. Clerical Staff - Provides clerical support to the CECC staff.
1. Operates CRT terminals of the CECC emergency computer system.
 2. Answers telephones.
 3. Maintains CECC organization board.
 4. Operates telephone console.
 5. Operates facsimile machine.
 6. Other duties as assigned by CECC staff.
 7. Distributes forms, data sheets, logs, etc..
- K. Supporting Organizations
- If necessary, the CECC Director may obtain assistance from other organizations within TVA.

**APPENDIX B Page 1 of 3
INFORMATION PERIODICALLY SUPPLIED TO THE STATE**

MSG # _____

TO: ☐ AEMA, Clanton, AL
☐ Alabama Radiation Control Agency, Montgomery, AL
☐ Alabama Radiation Control Agency, Decatur, AL (Director, TVA Liaison & AEMA Rep)
☐ TEMA, Nashville, TN (SEOC Director, TVA Liaison & Radiological Health)

FROM: **CECC State Communicator at (423) 751-1613**

REASON FOR REPORT: ☐ Periodic ☐ Significant Change of Status (min. items 1-4)

1. Affected Units: **BFN** U-2 ☐, U-3 ☐; **SQN** U-1 ☐, U-2 ☐; **WBN** U-1 ☐

2. Emergency Classification: ☐ Alert ☐ Site Area Emergency ☐ General Emergency

EAL Designator: _____ Declared at: _____ (local time at site), on: _____ (date)

3. Protective Action Recommendation ☐ None
☐ CECC Director's Protective Action Recommendation.
* (Attach EPIP-1, Appendix H)
*Time PAR made to State _____
*☐ No change in existing PAR

4. Offsite dose projections are: ☐ N/A ☐ Stable ☐ Improving ☐ Deteriorating

5. Radiological Release: ☐ No Abnormal ☐ Projected ☐ Actual

Estimated duration or Impact Times	<input type="checkbox"/> Airborne (see p. 2 of 3) ₁	<input type="checkbox"/> Waterborne (see p. 3 of 3) ¹	<input type="checkbox"/> Surface Spill
---------------------------------------	---	---	--

¹ May be generated and transmitted by computer

Estimate of surface spill contamination: _____

6. Actions to reduce/terminate radioactive release: _____

7. Emergency Actions underway at plant site:
☐ Site Accountability: Initiated (time) _____ Completed (time) _____
☐ Non-essential personnel released from site (time) _____
☐ Other: _____

8. Onsite support needed or requested from State/local organizations: _____

9. Plant conditions: See CECC EPIP-6, Appendix B - Time of Assessment: _____

Approval	Name	Time	Date
State Communicator			
CECC Director			

*Revision

APPENDIX B Page 2 of 3
PROJECTED AIRBORNE RELEASES
RADIOLOGICAL DOSE ASSESSMENT - PERIODIC STATE INFORMATION

PART NO. 2 OF _____

Time: _____ (local)

15. The release being assessed began/begins at _____ local time and is estimated to continue for _____ hr.

16. Release Rate: Noble Gas _____ $\mu\text{Ci/s}$
Iodine _____ $\mu\text{Ci/s}$
Particulates _____ $\mu\text{Ci/s}$
Gross Activity _____ $\mu\text{Ci/s}$

17. Release Point: _____ Effective Release Height _____ m
(0 meters = ground level)

18. Meteorological Conditions: Wind Speed: _____ meters/sec

Wind Direction _____ miles/hr
(From) _____ (degrees/sector)

Stability Class _____
Precipitation _____ mm
Affected Sector _____ degrees/sector

19. Projected Doses (rem)

<u>Distance</u>	<u>TEDE</u>	<u>Thyroid CDE</u>	<u>Cow Milk</u>
Exclusion Area Boundary	_____	_____	_____
2 mi	_____	_____	_____
5 mi	_____	_____	_____
10 mi	_____	_____	_____

20. Comments

APPENDIX B Page 3 of 3
ACTUAL/PROJECTED LIQUID RELEASES
RADIOLOGICAL DOSE ASSESSMENT - PERIODIC STATE INFORMATION

PART NO. 3 OF _____

Time: _____ (local)

21. The release being assessed began/begins at _____ local time and is estimated to continue for _____ hr.

22. Release: Nuclide Concentration

_____	_____ $\mu\text{Ci/mL}$
_____	_____ $\mu\text{Ci/mL}$
_____	_____ $\mu\text{Ci/mL}$
_____	_____ $\mu\text{Ci/mL}$
_____	_____ $\mu\text{Ci/mL}$

23. Release Point: _____ Shoreline _____ Diffuser

24. Total Release Volume: _____ ft^3 (1 gallon = 0.134 ft^3)

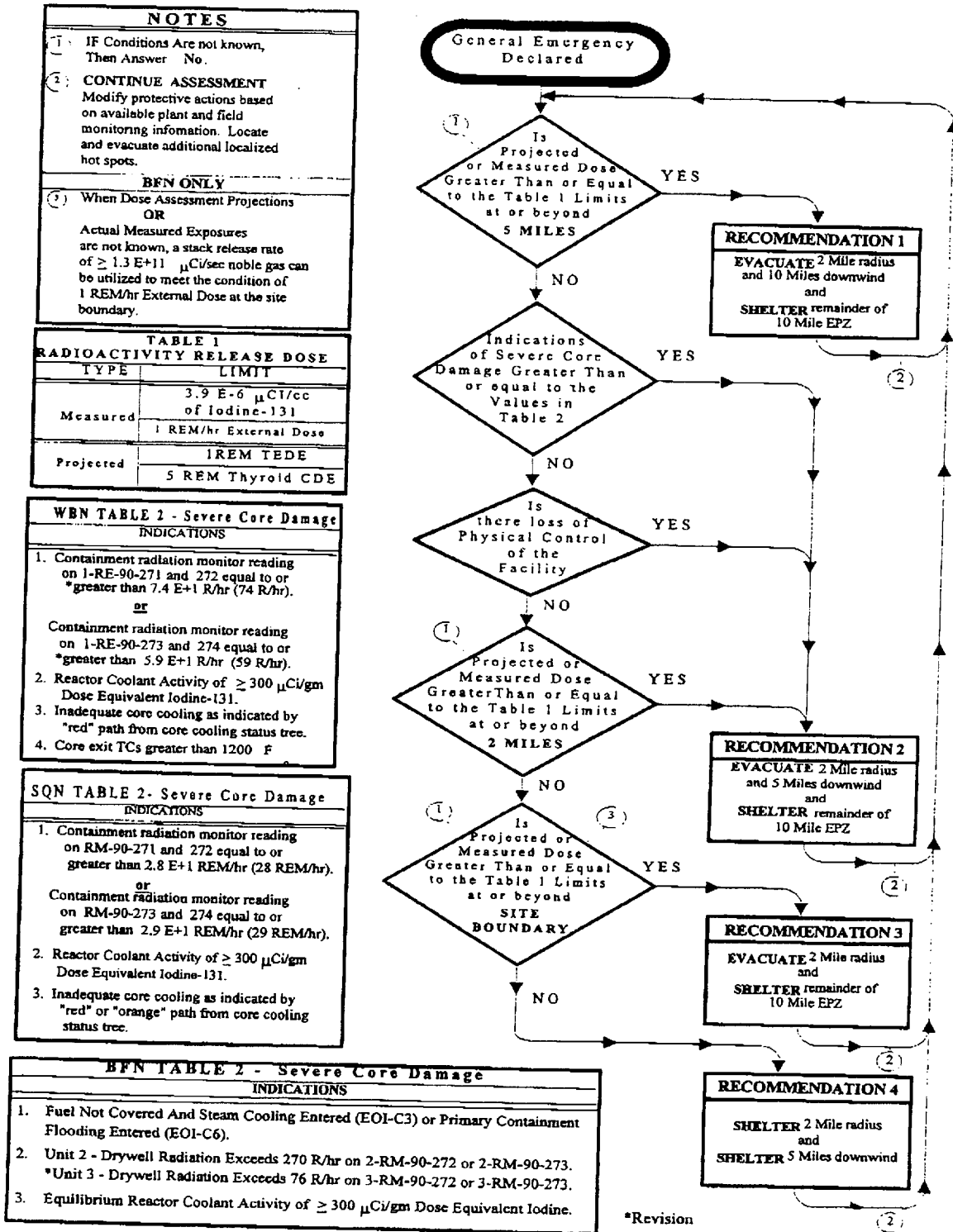
25. RIVER FLOW at the plant _____ ft^3/s
TRM: WBN-528.0, SQN-484.7, BFN-294.0

26. DOWNSTREAM DOSE RATE TO HYPOTHETICAL INDIVIDUAL

<u>LOCATION</u>	<u>ARRIVAL TIME</u>	<u>CONCENTRATION (mCi/mL)</u>		<u>DOSE RATE (D) (rem/d)</u>	
Water Supply	_____	_____	_____	_____	_____
		Plant Side	Opposite Side	Plant Side	Opposite Site
_____ TRM	_____	_____	_____	_____	_____
_____ TRM	_____	_____	_____	_____	_____
_____ TRM	_____	_____	_____	_____	_____

27. COMMENTS: _____

**APPENDIX C Page 1 of 1
INPUT FOR CECC ACCIDENT ASSESSMENT
(Full size copies are available in the CECC.)**



[illegible]

APPENDIX E Page 1 of 4
CECC DIRECTOR CHECKLIST

Date: _____

TIME/INITIAL

ALERT

- _____/_____
Review initial conditions from Operation Duty Specialist (ODS) incident form.
- Assume** responsibility for **primary contact** with the **site** and **state** and notify the following of this action:
- _____/_____
ODS
- _____/_____
Site Emergency Director (SED)
- _____/_____
State
- _____/_____
CECC Staff
- _____/_____
Notify Senior Nuclear Executive.
- _____/_____
Establish target time for CECC to be operational (not to exceed 1 hour from declaration of emergency.)
- _____/_____
When the following positions are staffed, inform the SED and announce to the CECC that you are **assuming responsibilities for making PARs** to state.
- _____
CECC Director
- _____
Plant Assessment Manager or Plant Assessment Coordinator
or Plant Assessment Team Member
- _____
Rad Assessment Manager or Rad Assessment Coordinator
- _____
Dose Assessor
- _____/_____
Verify security is established.
- _____/_____
Declare the **CECC operational** and inform the SED and state and announce to the CECC when the following positions are staffed (minimal staffing):
- _____
CECC Director
- _____
Plant Assessment Manager or Plant Assessment Coordinator
- _____
Plant Assessment Team Member
- _____
Rad Assessment Manager or Rad Assessment Coordinator
- _____
Dose Assessor
- _____
Public Information Manager or Information Supervisor
- _____
State Communicator
- _____/_____
Verify Plant Assessment Team is fully staffed.
- _____/_____
Verify Rad Assessment Team is fully staffed.
- _____/_____
Verify PIO Team is fully staffed.

APPENDIX E Page 2 of 4

- / Confer with PAM and RAM.
- / Conduct CECC briefing.
- / Contact State EOC Director.
- / Approve news release.

SITE AREA EMERGENCY

- / **Inform State EOC Director of the emergency classification within 15 minutes.**
- / Notify the SED that the State or local emergency response agencies have been notified of the emergency classification upgrade and provide time of notification.
- / Complete action items under Alert.
- / Discuss staffing of the JIC with PIO and State per EPIP-14.
- / Identify TVAN spokesperson (CECC Director, Site Vice President, or Site Emergency Director).
- / Assign TVA Liaison to State EOC.
- / Periodically review PARs with Plant and Rad Assessment Teams in the event of upgrading to a General Emergency.
- / Approve news release.
- / Announce classification to the CECC and inform TVA Spokesperson (if JIC staffed).

GENERAL EMERGENCY

- / **Inform State EOC Director of the emergency classification within 15 minutes and make PAR. Use Appendix H to provide a hardcopy of the PAR to the State.**
- / Notify the SED that the State or local emergency response agencies have been notified of the emergency classification upgrade and provide time of notification.
- / Complete actions under Alert and Site Area Emergency.
- / Review PARs with Plant and Rad Assessment teams.
- / Approve news release.
- / Announce classification to the CECC and inform TVA Spokesperson (if JIC staffed).

IF PAR IS MADE OR CHANGED

- / *Inform State EOC Director. Ensure State Communicator provides a hardcopy of any PAR *(Appendix H) to the State.
- / Confer with SED for site actions.
- / Approve news release.

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APPENDIX E Page 3 of 4

PERIODICALLY

- / Brief CECC Staff at least hourly or as conditions change.
- / Review EALs with PAM and RAM.
- / Review PARs with PAM and RAM.
- / Consult with SED on EALs.
- / Approve news releases.
- / Review anticipate state actions and discuss with State.
- / Coordinate efforts if other federal agencies are involved.
- / Initiate shift change schedule, if needed.

IF EVENT TERMINATES

- / Confer with SED.
- / Coordinate with State EOC Director.
- / Brief CECC staff.
- / Approve news releases.
- / Refer to Recovery checklist (see EPIP-13).

GENERAL OPERATIONS

NOTE: The CECC Director may, at his discretion, request the assistance of another individual qualified to fill this position.

1. Log key events and major actions taken.
2. Ensures that appropriate measures have been taken to terminate the condition causing the emergency, protects employees and the public, initiates recovery from the emergency, and informs the news media and public.
3. Ensures that federal, state, and local agencies are notified in accordance with established procedures and that they are kept fully informed of all aspects of the emergency.
4. Reviews with the Plant Assessment and Radiological Assessment Managers the onsite and offsite consequences of the accident and assesses the adequacy and need for measures taken for protection of the public.
5. The CECC Director is authorized to request Federal assistance (FREP) via the NRC.

<p>CENTRAL EMERGENCY CONTROL CENTER (CECC) ALERT, SITE AREA EMERGENCY, AND GENERAL EMERGENCY</p>	<p>CECC EPIP-1</p>	<p>Page 18 of 29 Revision 32</p>
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GENERAL OPERATIONS (Continued)

6. Commits TVA resources and provides necessary information to assist the State, Federal, and local agencies to the extent possible.
7. Maintains accurate records of decisions made and actions started and completed.
8. Coordinates TVA's efforts with State and Federal agencies involved in the offsite aspects of the emergency.
9. Makes recommendations to State and local agencies on protective actions (PARs) for the public.

APPENDIX F Page 1 of 2
STATE COMMUNICATOR CHECKLIST

Date: _____

TIME/INITIAL

- _____/____ Establish communications with the State.
- _____/____ Complete staffing report and send to State when CECC becomes operational.
- _____/____ Complete actions outlined in Appendix G if suspended rate telephones are activated.

Complete page 1 of CECC-EPIP-1, Appendix B, and send to State at least hourly. Initial form completed.

Verify that Dose Assessment is sending pages 2 and 3 of CECC-EPIP-1, Appendix B, to their counterparts at least hourly. Note times verified below.

_____/____
_____/____
_____/____
_____/____
_____/____
_____/____

_____/____
_____/____
_____/____
_____/____
_____/____
_____/____

If the emergency classification changes, verify that the State is notified within 15 minutes of the classification declaration. Follow up with a telecopy of Appendix B of this procedure with a minimum of the first four items completed.

APPENDIX F Page 2 of 2

GENERAL OPERATIONS

1. Log key events and major actions taken.
2. Acts as a communicator and confirms the State is receiving needed information.
3. Acts as contact for the State to clarify any discrepancies between information supplied from the CECC and any other TVA or non-TVA organization as they pertain to TVA-related activities.
- *4. Responsible for ensuring pertinent information related to emergency classifications, PARs, plant status, onsite responses, and TVA's dose/environs assessment activities are being provided to the State (see CECC-EPIP-1, Appendix B).
5. Assists the State as requested in providing TVA resource assistance to the State.
6. Assists the State Liaison (State government representative) as necessary to keep him briefed on the plan situation and coordinating responses to State inquiries, etc.
7. Confirms the State is notified within 15 minutes of any emergency classification change.

*Revision

APPENDIX G Page 1 of 5
**ACTIVATION AND DEACTIVATION OF SUSPENDED RATE TELEPHONE LINES
IN TVA AND STATE EMERGENCY FACILITIES**

Date: _____

TIME/INITIAL

_____/_____

Notify TVA Information Technical Service Center (ITSC) at (423) 751-4357 and request suspended rate lines in the facilities identified for activation be removed from suspended rate status. Refer to attachment for identified facility to be activated.

Browns Ferry JIC - Refer to Section 1.0 of this Appendix.

Browns Ferry SRMAC/AEMA Liaison - Refer to Section 2.0 of this Appendix.

Sequoyah/Watts Bar JIC - Refer to Section 3.0 of this Appendix.

Sequoyah FCC/RMCC - Refer to Section 4.0 of this Appendix.

Follow instructions in the applicable attachment to return lines to suspended rate status.

_____/_____

TVA ITSC confirmed action has been completed to remove lines from suspended rate status.

_____/_____

ITSC and Telecommunications Support Services contacted at (423) 751-2228 to request the telephone lines be placed back in suspended rate status.

_____/_____

Notify Manager, Emergency Preparedness, State and Local Programs to follow up on request to return lines to suspended rate status.

APPENDIX G Page 2 of 5

1.0 ACTIVATION/DEACTIVATION REQUIREMENTS FOR BROWNS FERRY JIC

- a. All telephones in the assigned rooms of the Fine Arts Building of John C. Calhoun State Community College must be removed from suspended rate status when the decision is made to staff the JIC.
- b. To activate the telephone lines on suspended rates, the EDO/State Communicator will contact the TVA Information Technical Service Center (ITSC) at (751-4357) and request the following lines be activated by using the lead telephone numbers to activate the blocks of lines.

BFN LEAD TELEPHONE NUMBERS (EARNING NUMBERS): 256-340-0092 & 256-355-4823

After the above is requested, the following lines will be activated:

LEAD NUMBER FOR THE SEVEN AREAS OF JIC IMMEDIATELY FOLLOWING: 256-340-0092.
This lead number activates these 54 phones.

TVA Staff Room	256-350-0092	256-350-5942	256-355-7643	256-355-2783
(19 phones)	256-350-5943	256-355-2782	256-350-5956	256-350-5957
	256-355-8073	256-340-0096	256-350-5953	256-355-8041
	256-355-8055	256-350-6089	256-350-5952	256-350-3895
	256-353-8347	256-340-0093	256-340-0094	

NRC/FEMA Staff Room	256-355-8002	256-353-1033
(4 phones)	256-350-3893	256-353-1049

AEMA Workroom	256-355-8036	256-350-5958	256-355-0730	256-355-8012
(21 phones)	256-350-6128	256-350-6129	256-355-0713	256-355-0714
	256-355-0705	256-353-6124	256-353-1059	256-350-6126
	256-350-6127	256-350-6120	256-350-6125	256-350-6122
	256-350-6123	256-350-6121	256-350-5944	256-350-3894
	256-350-5951			

Media Monitoring	256-355-7644	256-350-6481	256-355-8043 (Trouble Shooting)
Broadcast Space (3 phones)			

Media Work Space	256-355-4858	256-355-7916	256-355-4824	256-355-4828
First Floor (5 phones)	256-355-7915			

JIC Security	256-350-5941
(1 phone)	
Update Desk	256-355-2712
(1 phone)	

LEAD NUMBER FOR THE AREA OF JIC IMMEDIATELY FOLLOWING: 256-355-4823.
This lead number activates these 15 phones.

Media Work Space	256-355-4823	256-355-4829	256-355-4941	256-355-4942
Second Floor	256-355-4943	256-355-4944	256-355-4951	256-355-4952
(15 phones)	256-355-4953	256-355-4954	256-355-4998	256-355-7701
	256-355-7702	256-355-7913	256-355-7914	

APPENDIX G Page 3 of 5

2.0 ACTIVATION/DEACTIVATION REQUIREMENTS FOR STATE SRMAC FOR
BROWNS FERRY

- c. The ITSC will contact the EDO/State Communicator and confirm action has been completed to remove lines from suspended rate status.
- d. When the JIC is deactivated, the EDO/State Communicator will contact ITSC and Telecommunications Support Services at 751-2228 and request the above listed numbers be placed back in suspended rate status. The EDO/State Communicator will then request that the Manager, Emergency Preparedness, State and Local Programs follow up this request within 5 days and confirm this action has been completed.
- a. There are a limited number of suspended rate telephone lines in the State RMCC for Browns Ferry. These lines are located in the basement of the SRMAC/FCC portion of the Morgan County Emergency Operations Center in the basement of the Morgan County Courthouse. These lines must be removed from suspended rate status when the Director of the State Radiation Control Agency determines the RMCC is to be staffed in order to direct the activities of the field monitoring teams.
- b. To activate the telephone lines on suspended rates, the EDO/State Communicator will contact the TVA Information Technical Service Center (ITSC) at 751-4357 and request the following lines be activated using the lead telephone number.

LEAD TELEPHONE NUMBER (EARNING NUMBER): 256-350-9362

After the above is requested, the following lines will be activated:

Rm. B-31	256-350-9362				
Rm. B-33	256-355-9520	256-355-9076	256-350-6580	256-351-6024	
	256-355-9158	256-351-0441			

- c. The ITSC Center will contact the EDO/State Communicator and confirm action has been completed to remove lines from suspended rate status.
- d. When the SRMAC is deactivated, the EDO/State Communicator will contact ITSC and Telecommunications Support Services at 751-2228 and request the above listed numbers be placed back in suspended rate status. The EDO/State Communicator will then request that the Manager, Emergency Preparedness, State and Local Programs follow up this request within 5 days and confirm this action has been completed.

3.0

APPENDIX G Page 4 of 5
ACTIVATION/DEACTIVATION REQUIREMENTS FOR
SEQUOYAH/WATTS BAR JIC

- a. There are 20 telephone lines in the Sequoyah/Watts Bar JIC that are on suspended rate status. These lines are assigned to the Media Work area which is located in the hallway outside of the basement auditorium in Missionary Ridge Place in the Chattanooga Office Complex. These lines must be removed from suspended rate status when the decision is made to staff the JIC.
- b. To activate telephone lines on suspended rates, the EDO/State Communicator will contact the TVA Information Technical Service Center (ITSC) at 751-4357 and request the following lines be activated using the lead telephone numbers.

LEAD TELEPHONE NUMBERS (EARNING NUMBERS): 423-265-0300 & 423-265-0333

After the above is requested the following lines will be activated:

Media Work Area:	423-265-0300	423-265-0312	423-265-0314	423-265-0319
Lead Number	423-265-0325			
(Basic 5)				

Lead Number	423-265-0333	423-265-0336	423-265-0345	423-265-0350
(Additional 15)	423-265-0370	423-265-0333	423-265-0336	423-265-0345
	423-265-0350	423-265-0370	423-265-0400	423-265-0401
	423-265-0418	423-265-0611	423-265-0613	423-265-0642
	423-265-0645	423-265-0650	423-265-0652	423-265-0655

- c. The ITSC will contact the EDO/State Communicator and confirm action has been completed to remove lines from suspended rate status.
- d. When the JIC is deactivated, the EDO/State Communicator will contact the ITSC and Telecommunications Support Services at 751-2228 and request the above listed numbers be placed back in suspended rate status. The EDO/State Communicator will then request that the Manager, Emergency Preparedness, State and Local Programs follow up this request within 5 days and confirm this action has been completed.

APPENDIX G Page 5 of 5

4.0

**ACTIVATION/DEACTIVATION REQUIREMENTS FOR
STATE FCC/RMCC FOR SEQUOYAH/WATTS BAR**

- a. All telephone lines in the State FCC/RMCC located in the Air National Guard Armory at Lovell Field in Chattanooga must be removed from suspended rate status when the Tennessee Emergency Management Agency makes the decision to staff that facility.
- b. To activate the telephone lines on suspended rates, the EDO/State Communicator will contact the Information Technical Service Center (ITSC) at 751-4357 and request the following lines be activated using the lead telephone numbers to activate the blocks of lines.

LEAD TELEPHONE NUMBER (EARNING NUMBER): 423-899-9858

After the above is requested, the following lines will be activated:

RMCC	423-899-9858	423-894-6843	423-855-0190	423-899-7086
FCC	423-899-9433	423-894-6799	423-899-6795	423-899-9374
	423-899-9623	423-899-9621	423-899-9023	423-899-9129
	423-899-0826	423-899-9709	423-899-9389	423-899-9279
	423-899-6595	423-899-9599	423-899-9071	423-899-9771
	423-899-6980	423-899-6982	423-899-9025	423-899-9597

- c. The ITSC will contact the EDO/State Communicator and confirm that action has been completed to remove the lines from suspended rate status.
- d. When the FCC/RMCC is deactivated, the EDO/State Communicator will contact the ITSC and Telecommunications Support Services at 751-2228 and request the above listed numbers be placed back in suspended rate status. The EDO/State Communicator will then request that the Manager, Emergency Preparedness, State and Local Programs follow up this request within 5 days and confirm this action has been completed.

**APPENDIX H
CECC Director's Protective Action Recommendation**

TO: ☐ AEMA, Clanton, AL
☐ Alabama Radiation Control Agency, Montgomery, AL
☐ Alabama Radiation Control Agency, Decatur, AL (Director, TVA Liaison & AEMA Rep)
☐ TEMA, Nashville, TN (SEOC Director, TVA Liaison & Radiological Health)

Plant: ☐ Browns Ferry ☐ Sequoyah ☐ Watts Bar

Recommendation: (Completed by CECC Director)

√	PAR #	Action
	1	Evacuate 2 mile radius and 10 miles downwind and Shelter remainder of 10 mile EPZ
	2	Evacuate 2 mile radius and 5 miles downwind and Shelter remainder of 10 mile EPZ
	3	Evacuate 2 mile radius and Shelter remainder of 10 mile EPZ
	4	Shelter 2 mile radius and Shelter 5 miles downwind
	Other	

Basis:

	Actual or measured radiation readings
	Dose projection
	Severe core damage
	Loss of physical control of the facility

	Approval (Plant Assessment Manager)	Time/Date
PAM		

Affected Sectors: (Completed by Radiological Assessment Staff)

Sectors identified as affected include the sectors in their entirety. Attach appropriate page of this Appendix for the affected plant.

	Approval	Time/Date
RAM		
CECC Director		

Time State Notified: _____ Notified by: _____
 (Transmit this form to State as soon as possible after providing verbal recommendation)

APPENDIX H
CECC Director's Protective Action Recommendation

BROWNS FERRY
Affected Sectors (Completed by Radiological Assessment Staff)

2-Mile Sectors

A-2	B-2	F-2	G-2
<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter
<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate

5-Mile Sectors

A-5	B-5	E-5	F-5	G-5
<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter
<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate
<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None

10-Mile Sectors

A-10	B-10	C-10	D-10	E-10	F-10
<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter
<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate
<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None
G-10	H-10	I-10	J-10	K-10	
<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	
<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	
<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None	

RAM Approval: _____

Time/Date: _____

APPENDIX H
CECC Director's Protective Action Recommendation

SEQUOYAH
Affected Sectors (Completed by Radiological Assessment Staff)

2-Mile Sectors

A-1	B-1	C-1	D-1
<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter
<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate

5-Mile Sectors

A-2	A-3	B-2	B-5	C-2	D-2
<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter
<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate
<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None

10-Mile Sectors

A-4	A-5	A-6	B-3	B-4	B-6
<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter
<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate
<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None
B-7	B-8	C-3	C-4	C-5	C-6
<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter
<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate
<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None
C-7	C-8	D-3	D-4	D-5	D-6
<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter	<input type="checkbox"/> Shelter
<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate	<input type="checkbox"/> Evacuate
<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None

RAM Approval: _____

Time/Date: _____

**APPENDIX H
CECC Director's Protective Action Recommendation**

**WATTS BAR
Affected Sectors (Completed by Radiological Assessment Staff)**

2-Mile Sectors

A-1 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate	B-1 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate	C-1 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate	D-1 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate
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5-Mile Sectors

A-2 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	A-3 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	B-2 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	B-4 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	C-2 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	C-4 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None
C-5 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	C-7 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	C-8 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	D-2 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	D-4 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	D-5 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None

10-Mile Sectors

A-4 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	A-5 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	A-6 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	A-7 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	B-3 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	B-5 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None
C-3 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	C-6 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	C-9 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	C-10 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	C-11 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	D-3 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None
	D-6 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	D-7 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	D-8 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	D-9 <input type="checkbox"/> Shelter <input type="checkbox"/> Evacuate <input type="checkbox"/> None	

RAM Approval: _____

Time/Date: _____